



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3313

Job Sheet 168229



Part No: 646.3313

Job Qty: 6 ea

Part Name: Upper Guide



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 11/28/17

Created By: Linda Lacelle

Type: Stock

Description:

Note: DWG REV A SHEET 7 IPP REV:A NEW ISSUE 12/11/14 JFS VERIFY BY: JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	6 Ea	11/27/17	11/27/17	0.00	0.00	Start Up Machining		<i>ML 17/12/15</i>
100	Bandsaw	6 pcs	11/27/17	11/27/17	0.00	0.14	Bandsaw1		<i>ML 17/12/15</i>
110	CNC Vertical Machining	6 pcs	11/28/17	11/28/17	1.20	3.73	HAAS 1		<i>SBL 18/01/02</i>
120	QC	6 pcs	11/28/17	11/28/17	0.00	0.00	QC2		<i>SBL 18/01/02</i>
130	QC	6 pcs	11/28/17	11/28/17	0.00	0.00	QC8		<i>H. 18/01/05</i>
140	Outsource	6 pcs	11/28/17	11/28/17			ATG001-VC		<i>ML 18/02/02</i>
150	Packaging	6 pcs	11/28/17	11/28/17	0.00	0.00	Packaging2		<i>ML 18/02/02</i>
155	QC	6 pcs	11/28/17	11/28/17	0.00	0.00	QC5		<i>38</i>
180	Packaging	6 pcs	11/28/17	11/28/17	0.00	0.00	Packaging3		<i>9-88 524</i>
190	QC21-SA	6 Ea	11/28/17	11/28/17	0.00	0.00	QC21		<i>DAG 21 9-88</i>

Part Op 100 - Cut Blank at 13.500" *make two*

Descriptions: 110 - 1-Machine per folio FB152

140 - Issue P/O to ATG : _____

180 - ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

FEB 05 2018

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6B5.000X0.375	3	0	0	0

Part Specifications

Specifications could not be found.

FM138 563X1

FM138 563-1

5017359X2

5022574

Plex 11/14/17 6:40 AM dart.boucher.sylvie

DART
AEROSPACE
S022575

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Upper Guide

PART NO: 646.3313

Revision:

Operation: Start up Operation

Change No:

Mfg Date: 12/15/17

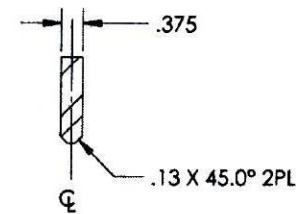
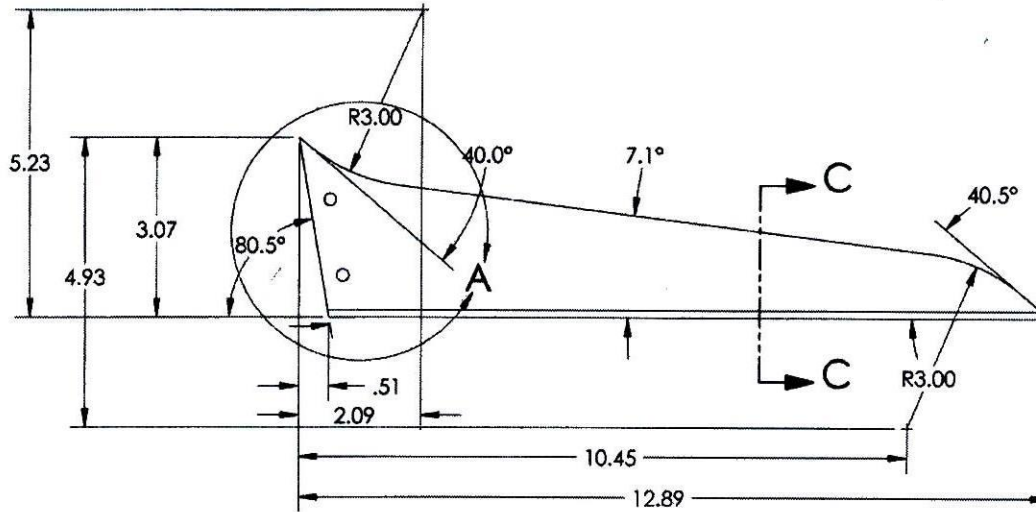
Job No: 168229

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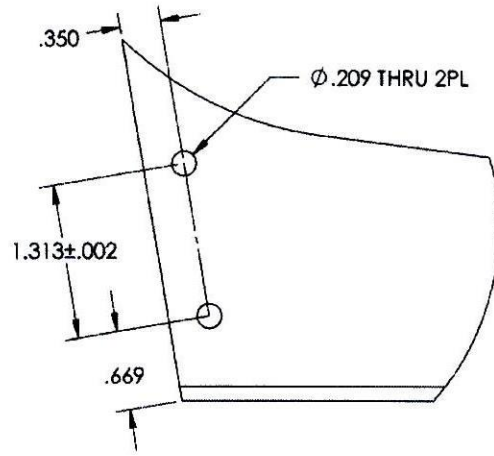
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 168229

DAS
30
9-89

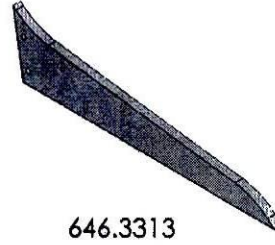
NOV 16 2017



SECTION C-C



DETAIL A



646.3313

ORIGINAL DATE 06/24/06 DRAWN BY T. HURF S. HURF DRAWING APPROVAL P. BRAYO 06/24/06 CONTRACT NO.		DART 3030 ENTERPRISE CT., SUITE A YUBA, CA 92081 (760) 724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 3 PLACE DECIMALS ±.01 ANGLES ± .5°		UPPER CUTTER ASSY	
SIZE B CAGE CODE 07N26	DWG. NO. 646.3300	REV. A	SCALE NONE SHEET 5 OF 8

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

REVIEWS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	06/26/08	P. BRAVO
A	INCORPORATED ICHS 02194, 03724, 04765, & 05708	02/21/17	P. BRAVO





Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038743

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038743

PO Date: 1/8/18

Due Date: 2/1/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

JAN 23 2018

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	166820	D4838-1	Upper Cutter Body, LH Issue P/O: _____ ATG, Hard Black Anodize and Prime as per Dwg D4838-1 Rev. A	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$11.61/pcs	\$116.10
2	169613	D4703-043	Lock Pin Base Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, As Per Dwg D4703	Firmed	2/1/18	4 pcs	0 pcs	4 pcs	\$4.06/pcs	\$16.24
3	168229	646.3313	Upper Guide Issue P/O to ATG: _____ Hard Anodize Color Black and Prime as per DWG 646.3300	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$14.46/pcs	\$86.76
4	168224	646.3210	Support Issue P/O to ATG: _____ 1- Hard Anodize Color Black and Prime as per Dwg 646.3200	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$15.71/pcs	\$94.26
5	168265	646.9710	Body Issue P/O to ATG: _____ Hard Black Anodize Color Black and Prime as per Dwg 646.9700	Firmed	2/1/18	12 pcs	0 pcs	12 pcs	\$15.86/pcs	\$190.32
6	165649	646.9811	Upper Deflector Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, PRIME AS PER DWG 646.9800 REV. A	Firmed	2/1/18	16 pcs	0 pcs	16 pcs	\$33.96/pcs	\$543.36
7	169180	649.5010	Deflector Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, AND PRIME AS PER DWG 649.5000 REV. D	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$35.36/pcs	\$176.80
8	169184	649.5214	Bracket Issue P/O to ATG: _____ Hard Anodize Color Black and Prime as per Dwg 649.5200	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$10.36/pcs	\$51.80
9	169748	650.9201		Firmed	2/1/18	20 pcs	0 pcs	20 pcs	\$7.96/pcs	\$159.20

JAN 24 2018



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038743

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	169630	D4842-1	Eyelet Bracket Assembly Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 650.9200	Firmed	2/1/18	8 pcs	0 pcs	8 pcs	\$13.41/pcs	\$107.28
11	169388	647.7819	Lower Cutter Deflector Outsource process- Issue P/O to ATG : _____ HARD ANODIZE COLOR BLACK, PRIME AS PER DWG D4842	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$12.61/pcs	\$126.10
12	168245	646.3715	Cross Bracket Fwd Issue P/O to ATG : _____ HARD ANODIZE COLOR BLACK, AND PRIME AS PER DWG 647.7819	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$7.61/pcs	\$76.10
13	168267	646.9712	Strut Doubler Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.3700	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$15.86/pcs	\$95.16
14	168268	646.9713	Body Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.9700	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$8.86/pcs	\$44.30
15	169381	647.1610	Body Issue P/O to ATG : _____ Anodize, Color Black, Prime as per Dwg 646.9700	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$12.06/pcs	\$72.36
16	169485	647.7612	Wiper Deflector Fwd Issue P/O to ATG : _____ 1- Hard Anodize, Color Black and Prime as per Dwg, 647.1600	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$12.06/pcs	\$72.36
17	166816	D4823-1	Breakaway Tip Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as Per Dwg 647.7600	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$12.06/pcs	\$72.36
			Upper Cutter Deflector Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg D4823	Firmed	2/1/18	12 pcs	0 pcs	12 pcs	\$12.51/pcs	\$150.12
Grand Total:									\$2,178.62	

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914523

Date: 30-Jan-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
10 ea	Part: D4838-1 Upper Cutter Body, LH Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 22348		Rev: A PO: PO038743 Line: 1
8 ea	Part: D4842-1 Lower Cutter Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (1 - 2 mils) per drawing. Job: 22356		Rev: B PO: PO038743 Line: 10
6 ea	Part: 646.9712 Body Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Job: 22359		Rev: D PO: PO038743 Line: 13
6 ea	Part: 646.3313 Upper Guide Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22350		Rev: NC PO: PO038743 Line: 3
6 ea	Part: 646.3210 Support Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22351		Rev: NC PO: PO038743 Line: 4
Made in Canada.			

Made in Canada.



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914523

Date: 30-Jan-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
		OUR TRUCK	
Quantity	Description		
5 ea	Part: 649.5214 Bracket Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22355	Rev: A	PO: PO038743 Line: 8
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>30/1/2018</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt. Made in Canada.			